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(71) Applicant (*for all designated States except US*): **LEE, Hun-Su** [KR/KR]; 506 Banseok-Blessvill, 1615-17 Bongcheon 7-dong, Gwanak-gu, Seoul 151-057 (KR).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **YOUN, Tae-Hyun** [KR/KR]; A-202 Miraejootaek, 163-14, Kwansan-Dong, Dukyang-Gu, Goyang-Si, 412-802 Gyeonggi-Do (KR). **LEE, Jong-Baek** [KR/KR]; 826-2 Jokyo Gurang-Ri, Seopo-Myeon, Sacheon-Si, 664-821 Gyeongsangnam-Do (KR). **BAE, Seung-Chul** [KR/KR]; 107-2 Jukdong-Dong, Gangseo-Gu, 618-320 Busan-Si (KR).

(74) Agent: **L & K PATENT FIRM**; 701, Daekun Bldg., 822-5, Yeoksam-Dong, Kangnam-Gu, 135-080 Seoul (KR).

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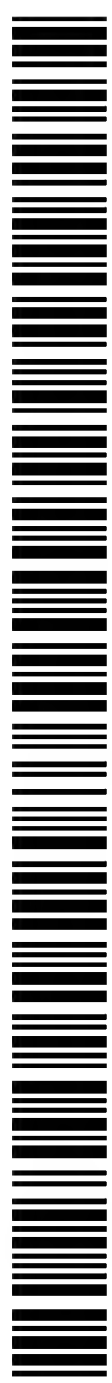
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(54) Title: METHOD FOR MANUFACTURING GARNET SINGLE CRYSTAL AND GARNET SINGLE CRYSTAL MANUFACTURED THEREBY

(57) Abstract: Disclosed herein is a method for manufacturing a magnetic garnet single crystal from a melt containing an alkali metal oxide or carbide, garnet single crystal raw materials and Bi<sub>2</sub>O<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>-PbO as a flux by liquid phase epitaxy (LPE) wherein the garnet single crystal is grown at a relative low temperature due to a reduced viscosity of the melt, and the grown garnet single crystal has a uniform thickness and a specular surface without any crystal defects. Further disclosed is a magnetic garnet single crystal manufactured by the method.



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